

I. Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

A. Listing of Claims

1. (Previously Presented) An optical disk recording apparatus, comprising:

a recording module to record at least image data on an optical disk medium;

a thumbnail generating module to generate, for each partial recording section of image data to be recorded on said optical disk medium, thumbnail data of a particular image associated with the partial recording section, the thumbnail data being recorded on said optical disk medium by said recording means, wherein:

when a particular operation is conducted, the particular image is read for each of the partial recording sections;

said thumbnail generating module generates thumbnail data for the particular image read for said each partial recording section; and

said recording module records the thumbnail data of a plurality of images in the form of a string of data; and

a module to determine a type of said optical disk medium and to change the processing to generate and to record thumbnail data in association with the recording of the image in accordance with the determined type of optical disk medium.

2. (Original) An optical disk recording apparatus according to claim 1, wherein:

said optical disk medium is of a write-once type; and

when an operation for write processing termination is conducted as the particular operation, the string of thumbnail data is recorded.

3. (Original) An optical disk recording apparatus according to claim 1, wherein:

said optical disk medium is of a write-once type; and

each time an operation for REC processing is conducted as the particular operation, thumbnail data is generated for the particular operation and is separately kept as a string of thumbnail data; and

when an operation for write processing termination is conducted as the particular operation, the string of thumbnail data is recorded.

4. (Previously Presented) An optical disk recording apparatus capable of recording data on a plurality of types of optical disk media, comprising:

a recording module to record at least image data on an optical disk medium;

a thumbnail generating module to generate, for each partial recording section of image data to be recorded on said optical disk medium, thumbnail data of a particular image associated with the partial recording section, the thumbnail data being recorded on said optical disk medium by said recording means; and

a module to determine a type of said optical disk medium and to change the processing to generate and to record thumbnail data in association with the recording of the image in accordance with the determined type of optical disk medium.

5. (Original) An optical disk recording apparatus according to claim 4, wherein:

said optical disk medium is of a write-once type; and

when an operation for write processing termination is conducted as the particular operation, the string of thumbnail data is recorded.

6. (Original) An optical disk recording apparatus according to claim 4, wherein:
said optical disk medium is of a write-once type; and
each time an operation for REC processing is conducted as the particular operation, thumbnail data is generated for the particular operation and is separately kept as a string of thumbnail data; and
when an operation for write processing termination is conducted as the particular operation, the string of thumbnail data is recorded.

7. (Previously Presented) An optical disk recording method, comprising the steps of:
determining a type of an optical disk medium from among a plurality of types of optical disk media;
recording at least image data on the optical disk medium;
generating, for each partial recording section of the image data, thumbnail data of a particular image associated with the partial recording section and recording the thumbnail data;
reading, when a particular operation is conducted, the particular image for each of the partial recording sections;
generating thumbnail data for the particular image read; and
recording the thumbnail data of a plurality of images in the form of a string of data on the optical disk medium,
wherein at least one of the thumbnail data generating and recording steps comprises a process selected from among a plurality of different processes, in response to the determined type of optical disk medium.

8. (Previously Presented) An optical disk recording method according to claim 7, wherein upon determining that an optical disk medium is a write-once type medium:

when an operation for write processing termination is conducted as the particular operation, the generating comprises generating thumbnail data for each of the string of partial recording sections; and

the recording of the thumbnail data on the write-once type optical disk medium comprises recording the thumbnail data generated by the generating step after the string of partial recording sections.

9. (Previously Presented) An optical disk recording method according to claim 7, wherein upon determining that an optical disk medium is a write-once type medium:

each time an operation for REC processing is conducted as the particular operation, the generating comprises generating thumbnail data for the particular operation and separately keeping the thumbnail data as a string of thumbnail data; and

when an operation for write processing termination is conducted as the particular operation, recording of the thumbnail data on the write-once type optical disk medium comprises recording the string of thumbnail data after the partial recording sections.

10. (Previously Presented) An optical disk recording method, comprising the steps of:
recording at least image data on a plurality of optical disk media of a plurality to different types;

generating, for each partial recording section of the image data recorded on each optical disk medium, thumbnail data of a particular image associated with the partial recording section and recording the thumbnail data;

determining a type of each optical disk medium; and

changing processing to generate and to record thumbnail data in association with the recording of the image on the optical disk media in accordance with the determined type of optical disk medium.

11. (Previously Presented) An optical disk recording method according to claim 10, wherein:

when it is determined that said optical disk medium is of a write-once type and when an operation for write processing termination is conducted as the particular operation,

the generating comprises generating thumbnail data for the partial recording section; and

the recording of the thumbnail data comprises recording the thumbnail data for the partial recording section.

12. (Previously Presented) An optical disk recording method according to claim 10, wherein:

when it is determined that said optical disk medium is of a write-once type and an operation for REC processing is conducted as the particular operation,

the generating comprises generating thumbnail data for the particular operation and separately keeping the thumbnail data as a string of thumbnail data; and

when an operation for write processing termination is conducted as the particular operation, the recording of the thumbnail data comprises recording the string of thumbnail data after the partial recording sections, the recording being conducted as an update operation.